GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:2276
ANSWERED ON:14.03.2007
SATELLITES LAUNCHED BY ISRO
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Will the Minister of SPACE be pleased to state:

(a) the details of satellites launched by ISRO so far, successful and failed;

(b) whether the ISRO has recently launched new series of PSLV recently;

(c) if so, the salient features and the benefits likely to be accrued as a result thereof;

(d) whether it is also proposed to launch more such satellites in the near future; and

(e) if so, the details thereof;

(f) whether India proposes to enter global market for images and data; and

(g) if so, the details thereof?

Answer

MINISTER OF STATE IN THE PRIME MINISTER`S OFFICE (SHRI PRITHVIRAJ CHAVAN)

(a) India has launched 46 satellites so far (up to March 9, 2007). Out of these, 3 satellites have failed in orbit and 5 satellites could not be orbited (Launch Failure). Details are given in the enclosed Annexure.

(b)&(c) ISRO has recently launched PSLV-C7 on January 10, 2007 from Satish Dhawan Space Centre SHAR, Sriharikota. This was the tenth flight of PSLV and in this mission, it launched four satellites - India`s CARTOSAT-2 and Space capsule Recovery Experiment (SRE - 1), Indonesia`s LAPAN-TUBSAT and Argentina`s PEHUENSAT-1. All the satellites were placed precisely in the specified 635 km high polar orbit. CARTOSAT-2 will benefit in detailed mapping of the country and other cartographic applications at cadastral level, urban and rural infrastructure development and management, as well as applications in Land Information System (LIS) and Geographical Information System (GIS). Space capsule Recovery Experiment (SRE-1) has demonstrated the critical technology of recovering a satellite from orbit which will be used in designing future advanced launch vehicle systems.

(d)&(e) It is planned to launch Oceansat-2 satellite for Ocean and coastal studies, Radar Imaging Satellite (RISAT), Resourcesat-2 for natural resource survey applications and SRE-2 in the next two years.

(f)&(g) India is already marketing the IRS imagery/data through a network of international ground stations under commercial agreement with M/s Antrix.

ANNEXURE

INDIAN SPACE MISSION (UPTO 9th March 2007)

SL. No.	NAME	DATE OF LAUNCH	MISSIONS	LAUNCH VEHICLE	SUCCESSFUL/ FAILED
1.	ARYABHATA	19.04.1975	Scientific & Experimental	INTER COSMOS, USSR	SUCCESSFUL
2.	BHASKARA-1	07.06.1979	Experimental Earth Observation	INTER COSMOS, USSR	SUCCESSFUL
3.	RTP	10.08.1979	Experimental	SLV-3 INDIA	Sub-orbital flight
4.	RS-1	18.07.1980	Scientific & Technical	SLV-3 INDIA	SUCCESSFUL
5.	RS-D1	31.05.1981	Scientific & Technical	SLV-3 INDIA	SUCCESSFUL
6.	APPLE	19.06.1981	Experimental Communication	ARIANE, FRANCE	SUCCESSFUL

7	BHASKARA-2	20.11.1981	Experimental Earth Observation	INTER COSMOS, USSR	SUCCESSFUL
8.	INSAT-1A	10.04.1982	Communication & Meteorology	US, DELTA, USA	Prematurely aborted
9.	RS-D2	17.04.1983	Scientific & Technical	SLV-3 INDIA	SUCCESSFUL
10.	INSAT-1B	30.08.1983	Communication & Meteorology	SPACE SHUTTLE, USA	SUCCESSFUL
11.	SROSS-1	24.03.1987	Scientific & Technical	ASLV, INDIA	Launch Failure
12.	IRS-1A	17.03.1988	Remote Sensing Satellite	VOSTOK, USSR	SUCCESSFUL
13.	SROSS-2	13.07.1988	Scientific & Technical	ASLV, INDIA	Launch Failure
14.	INSAT-1C	22.07.1988	Communication & Meteorology	ARIANE, FRANCE	SUCCESSFUL
15.	INSAT-1D	12.06.1990	Communication & Meteorology	US,DELTA,USA	Prematurely aborted
16.	IRS-1B	29.08.1991	Remote Sensing Satellite	VOSTOK, USSR	SUCCESSFUL
17.	SROSS-C	20.05.1992	Scientific & Technical	ASLV, INDIA	SUCCESSFUL
18.	INSAT-2A	10.07.1992	Communication & Meteorology	ARIANE, FRANCE	SUCCESSFUL
19.	INSAT-2B	23.07.1993	Communication & Meteorology	ARIANE, FRANCE	SUCCESSFUL
20.	IRS-1E	20.09.1993	Remote Sensing-Test Satellite	PSLV, INDIA	Launch Failure
21.	SROSS-C2	04.05.1994	Scientific & Technical	ASLV, INDIA	SUCCESSFUL
22.	IRS-P2	15.10.1994	Remote Sensing-Test Satellite	PSLV, INDIA	SUCCESSFUL
23.	INSAT-2C	07.12.1995	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
24.	IRS-1C	28.12.1995	Remote Sensing Satellite	MOLNIYA,RUSSIA	SUCCESSFUL
25.	IRS-P3	21.03.1996	Remote Sensing Satellite	PSLV, INDIA	SUCCESSFUL
26.	INSAT-2D	04.06.1997	Communication Satellite	ARIANE, EUROPE	Prematurely aborted
27.	IRS-1D	29.09.1997	Remote Sensing Satellite	PSLV-C1, INDIA	SUCCESSFUL
28.	INSAT-2DT	Procured in Orbit from ARABSAT in January 1998			SUCCESSFUL
29.	INSAT-2E	03.04.1999	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
30.	OCEANSAT	26.05.1999	Ocean & Coastal Studies	PSLV-C2, INDIA	SUCCESSFUL
31.	INSAT-3B	22.03.2000	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
32.	GSAT-1	18.04.2001	Communication Satellite	GSLV-D1, INDIA	SUCCESSFUL
33.	TES	22.10.2001	Technology Sat.RemoteSensing	PSLV-C3, INDIA	SUCCESSFUL
34.	INSAT-3C	24.01.2002	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
35.	KALPANA-1	12.09.2002	Meteorology Satellite	PSLV-C4, INDIA	SUCCESSFUL
36.	INSAT-3A	10.04.2003	Communication & Meteorology	ARIANE, EUROPE	SUCCESSFUL
37.	GSAT-2	08.05.2003	Communication Satellite	GSLV-D2, INDIA	SUCCESSFUL
38.	INSAT-3E	28.09.2003	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
39.	RESOURCESAT-1	17.10.2003	Remote Sensing Satellite	PSLV-C5, INDIA	SUCCESSFUL
40.	EDUSAT	20.09.2004	Satellite for Education	GSLV-F01, INDIA	SUCCESSFUL
41.	CARTOSAT-1	05.05.2005	Satellite for Cartography	PSLV-C5, INDIA	SUCCESSFUL
42.	HAMSAT	05.05.2005	Satellite for Amateur Radio	PSLV-C5, INDIA	SUCCESSFUL
43.	INSAT-4A	22.12.2005	Communication Satellite	ARIANE, EUROPE	SUCCESSFUL
44.	INSAT-4C	10.07.2006	Communication Satellite	GSLV-F2, INDIA	Launch Failure
45.	CARTOSAT-2	10.01.2007	Remote Sensing Satellite	PSLV-C7, INDIA	SUCCESSFUL
46.	SRE-1	10.01.2007	Technology Satellite	PSLV C7, INDIA	SUCCESSFUL